

ABSTRACT

Disclosed is a waste water disposal process in the biosolid method according to a line atomizing treatment in which a reactive gas containing oxygen or oxygen and ozone as hardly soluble gases is dissolved/stored in water as being converted into ultrafine bubbles. The characteristic feature is that, by forming a gas-dispersion liquid in which the reactive gas containing oxygen or oxygen and ozone is dispersed in the form of ultrafine bubbles in returned biosolid water or in clean water at outside of the vessels (pools) of the waste water treatment system and by introducing the aforementioned gas-dispersion liquid into a reaction vessel (aerobic or anaerobic), oxygen is supplied to the microorganisms. Alternatively, the aforementioned gas-dispersion liquid is introduced into a vessel in the step preceding the reaction vessel or succeeding the reaction vessel. Further, the kind, concentration and volume of the reactive gas, the vessel (pool) for returning and the duration of introduction are set in accordance with the proceeding conditions of the waste water treatment and unitarily controlled.